

GENERIC NAME:

ALBUTEROL SULFATE

112.03

BRAND NAME: Proventil, Ventolin

CLASS: sympathomimetic, bronchodilator

Mechanism of Action:

β agonist (primarily β_2); relaxes bronchial smooth muscle, resulting in bronchodilation; also relaxes vascular and uterine smooth muscle; decreases airway resistance

Indications and Field Use:

Treatment of bronchospasm

Contraindications:

Synergistic with other sympathomimetics
Use caution in patients with diabetes, hyperthyroidism, and cerebrovascular disease

Adverse Reactions:

CV: Dysrhythmias, tachycardia (with excessive use), peripheral vasodilation
Resp: Bronchospasm (rare paradoxical with excessive use)
CNS: Tremors, nervousness
GI: Nausea, vomiting
Endocrine: Hyperglycemia

NOTES ON ADMINISTRATION

Incompatibilities/Drug Interactions:

Tricyclic antidepressants (TCA's) and monoamine oxidase (MAO) inhibitors
Other sympathomimetics (relative)

Adult Dosage:

Give 2.5 mg of premixed solution for inhalation (0.083%) via SVN with a mouth piece, or in-line with a ventilatory device. Repeated according to medical control preference

Pediatric Dosage: (children <40 lbs)

For children < 40 lbs., administer half of 0.083% premixed solution; add 1-1.5 ml NS to make 2.5-3 cc inhalation treatment administered via SVN with a mouth piece, O₂ mask or in-line with a ventilatory device. May be repeated according to medical control preference

Routes of Administration:

Nebulized, mouth piece or in-line via mask
Inhaler, patients own
ET/NT in-line

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Onset of Action:

5-15 minutes

Peak Effects:

30 minutes - 2 hours

Duration of Action:

3-4 hours

Dosage Forms/Packaging:

2.5 mg albuterol premixed in 3 ml normal saline (independent dose) sulfite-free

Arizona Drug Box Supply Range:

PARAMEDIC: 2 - 6 independent doses

INTERMEDIATE: 2 - 6 independent doses

Special Notes:

> Must be sulfite-free